

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Canceled)
2. (Canceled)
3. (Canceled)
4. (Canceled)
5. (Canceled)
6. (Canceled)
7. (Currently Amended) A method, comprising:
fetching and decoding instructions in a first processor;
detecting an unsupported instruction that is not executable by the first processor;
executing said unsupported instruction in a second processor; and
providing the first processor with a supported instruction that is executable in the first processor by loading the supported instruction in decode logic of the first processor without the first processor fetching any portion of said supported instruction.
8. (Currently Amended) The method of claim 7 wherein providing the first processor with the [[a]] supported instruction comprises loading the supported instruction in the decode logic of the first processor by accessing a port addressable by the second processor.
9. (Currently Amended) The method of claim 7 further comprising detecting patterns of supported and unsupported instructions yet to be executed to determine when to

perform said providing the first processor with the [[a]] supported instruction that is executable in the first processor without the first processor fetching any portion of said supported instruction.

10. (Currently Amended) The method of claim 9 wherein said patterns comprise an unsupported instruction followed by less than a threshold number of consecutive supported instructions ~~instruction~~ before the next unsupported instruction.

11. (Currently Amended) A system, comprising:
a first processor having fetch logic and decode logic, the first processor fetches supported instructions from memory using said fetch logic and decodes said supported instructions with said decode logic;
a second processor, the second processor executes unsupported instructions;
means for loading a supported instruction in said decode logic of the first processor so that the first processor decodes but does not fetch any portion of the supported instruction;
means for coordinating when said loading the [[a]] supported instruction in said decode logic of the first processor so that the first processor decodes but does not fetch any portion of the supported instruction occurs.

12. (Currently Amended) The system of claim 11 wherein said means for loading the [[a]] supported instruction in said decode logic of the first processor so that ~~than~~ the first processor decodes but does not fetch any portion of the supported instruction comprises coupling the decode logic to a port addressable by the second processor, wherein the second processor fetches the supported instruction and loads said supported instruction in the decode logic of the first processor by accessing said port.

13. (Original) The system of claim 12 wherein a switch permits said coupling the decode logic to the port addressable by the second processor.

14. (Currently Amended) The system of claim 11 wherein said means for coordinating when said loading the ~~the~~ supported instruction in said decode logic of the first processor so that the first processor decodes but does not fetch any portion of the supported instruction occurs comprises a control program that examines patterns of supported and unsupported instructions yet to be executed and causes the first processor to switch between multiple instruction execution modes according to the patterns, wherein said loading the ~~the~~ supported instruction in the decode logic of the first processor so that the first processor decodes but does not fetch any portion of the supported instruction is one of said multiple instruction execution modes.

15. (Original) The system of claim 14 wherein said control program runs on the second processor.

16. (Currently Amended) The system of claim 14 wherein said patterns comprise an unsupported instruction followed by less than a threshold number of consecutive supported instructions ~~instruction~~ before the next unsupported instruction.

17. (Original) The system of claim 16 wherein said threshold number is three.

18. (Currently Amended) A method, comprising:
fetching and decoding instructions in a first processor;
detecting an unsupported instruction that is not executable by the first processor;
executing said unsupported instruction in a second processor;
providing the first processor with a supported instruction that is executable in the first processor by loading the supported instruction in decode logic of the first processor without the first processor fetching any portion of said supported instruction; and
detecting patterns of supported and unsupported instructions yet to be executed.

19. (Currently Amended) The method of claim 18 wherein providing the first processor with the ~~the~~ ~~the~~ supported instruction comprises loading the supported instruction in the decode logic of the first processor by accessing a port addressable by the second processor.

20. (Currently Amended) The method of claim 18 wherein detecting patterns of supported and unsupported instructions yet to be executed is used to determine when to perform said providing the first processor with the ~~the~~ ~~the~~ supported instruction that is executable in the first processor without the first processor fetching any portion of said supported instruction.

21. (Currently Amended) The method of claim 20 wherein said patterns comprise an unsupported instruction followed by less than a threshold number of consecutive supported instructions ~~instruction~~ before the next unsupported instruction.

22. (Currently Amended) A system, comprising:
a first processor having fetch logic and decode logic, the first processor fetches supported instructions from memory using said fetch logic and decodes said supported instructions with said decode logic;
a second processor, the second processor executes unsupported instructions;
means for loading a supported instruction in said decode logic of the first processor so that the first processor decodes but does not fetch any portion of the supported instruction;
means for coordinating when said loading the ~~the~~ ~~the~~ supported instruction in said decode logic of the first processor so that the first processor decodes but does not fetch any portion of the supported instruction occurs comprises a control program that examines patterns of supported and unsupported instructions yet to be executed and causes the first processor to switch between multiple instruction execution modes according to the patterns.

23. (Currently Amended) The system of claim 22 wherein said means for loading the ~~the~~ ~~the~~ supported instruction in said decode logic of the first processor so that ~~that~~ the first processor decodes but does not fetch any portion of the supported instruction comprises coupling

the decode logic to a port addressable by the second processor, wherein the second processor fetches the supported instruction and loads said supported instruction in the decode logic of the first processor by accessing said port.

24. (Previously Presented) The system of claim 23 wherein a switch permits said coupling the decode logic to the port addressable by the second processor.

25. (Currently Amended) The system of claim 22 wherein said loading the [[a]] supported instruction in the decode logic of the first processor so that the first processor decodes but does not fetch any portion of the supported instruction is one of said multiple instruction execution modes.

26. (Previously Presented) The system of claim 25 wherein said control program runs on the second processor.

27. (Currently Amended) The system of claim 25 wherein said patterns comprise an unsupported instruction followed by less than a threshold number of consecutive supported instructions ~~instruction~~ before the next unsupported instruction.

28. (Previously Presented) The system of claim 27 wherein said threshold number is three.